

THE FALSE PROMISES OF THE "BIO" BIN BAG

Production and disposal of PLA (polylactic acid)

Cultivation

A lot of crops, land and water are needed to produce the raw materials for a bio-based bin-bag. Making one tonne of PLA requires...



2.39 tonnes
maize



0.37 hectares
land



2 921 m³
water

Production

Depending on the material the "bioplastic" is made of, it may use less energy than if it is made of petroleum.



40 MJ/kg
PLA



80 MJ/kg
PE

Use

"Bioplastic" bags are often used to dispose of organic waste.



Disposal



Less than **40 %**
of bio-based plastics
are biodegradable.

Current methods of disposing of biodegradable plastics



Do not degrade in the sea

There is still no plastic that degrades in water quickly enough. Plastics cause huge problems in the oceans.



Do not degrade in the soil

Current uses, including as mulch on vegetable fields, still cause plastic pollution.



Not compostable at home

Under normal conditions, the composting process takes far too long and does not produce an acceptable compost for the garden.



Not industrially compostable

Most plants are not equipped for composting. Many "bioplastics" are separated and sent to the incinerator.